



Contract No. 009359	Station Section 4A	Mile/Line: US-12	C/S
Staked by SURVEY 7/1/2019	Date	Work Started Date 7/8/2019	Work Completed Date
Calculated by Scott Busby 8/5/2019	Date	Checked by E. Knudson 8/8/2019	Inspector Scott Busby 8/5/19

ITEM NO. 15

Section 1 - I-90, MP 33.44 to MP 136.43

EAM GUARDRAIL TYPE 31

Est.#5

Group Number 1

7/22/2019 - I-90

- Station MP 33.48 Main RT WB - Sheet 3 - Install **175 LF** of Beam Guardrail Type 31
- $175 - 37.5 = 137.5$ (6 posts) + $(137.5/6.25 = 22)$ Total of **28** wood posts
- **8** steel post (Typ.)

Group Number 2

7/22/2019 - I-90

- Station MP 35.43 Main RT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)

Group Number 8

7/29/2019 - I-90

- Station MP 83.45 Main LT EB - Sheet 2 - Install **37.5 LF** of Beam Guardrail Type
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 85.84 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 95.97 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)

7/30/2019 - I-90

- Station MP 85.84 Main LT EB - Sheet 4 - Install **37.5 LF** of Beam Guardrail Type
- $37.5 = (6 \text{ posts})$ Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 96.86 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type

- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)

7/31/2019 - I-90

- Station MP 97.23 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)
- Station MP 100.52 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type
- 37.5 = (6 posts) Total of **6** wood post
- **8** steel post (Typ.)
- Station MP 101.04 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type
- 37.5 = (6 posts) Total of **6** wood post
- **8** steel post (Typ.)

8/1/2019 - I-90

- Station MP 110.13 S1 Ramp 110 on ramp 0.57 LT WB - Sheet 3 - Install **237.5 LF** of Beam Guardrail Type 31
- $237.5 - 37.5 = 37.5$ (6 posts) + $(200/6.25 = 12)$ Total of **38** wood posts
- **8** steel post (Typ.)

8/2/2019 - I-90

- Station MP 96.96 Main LT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type
- 37.5 = (6 posts) Total of **6** wood posts
- **8** steel post (Typ.)

Sub Total: $((37.5*9)+237.5) = \mathbf{575\ LF}$

$((6*9)+38) = \mathbf{92\ EA}$ - Wood Posts

$((8*10) = \mathbf{80\ EA}$ - Steel Posts

Group Number 9

7/30/2019 - I-90

- Station MP 84.19 Main RT EB - Sheet 2 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** wood posts
- **8** steel posts

8/2/2019 - I-90

- Station MP 83.91 Main RT WB - Sheet 2 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** wood posts
- **8** steel posts

Sub Total: $(37.5*2) = \mathbf{75\ LF}$

$(6*2) = \mathbf{12\ EA}$ - Wood Posts

$(8*2) = \mathbf{16\ EA}$ - Steel Posts

Group Number 10

8/1/2019 - I-90

- Station MP 106.33 R1 Ramp 106 off ramp 0.17 LT WB - Sheet 2 - Install **37.5 LF** of Beam Guardrail Type 37
- 37.5 - (6 posts) for a total of **6** wood posts
- **8** steel posts

Total: $(175+37.5+575+75+37.5) = \mathbf{900 \text{ LF}}$

$(28+6+92+6) = \mathbf{132 \text{ EA}}$ - Wood Posts

$(8+8+80+16+8) = \mathbf{120 \text{ EA}}$ - Steel Posts

Note:
Measured by wheel and counted

Item Num	Material Brand Name/Model Type	Manufacturer	Brand Name/Model Type	RAMS/QPL Ref. No.	Appr/Acc Code	Basis of Accept
015.02	Beam Guardrail Thrie Beam Elements and Components	Trinity Highway Products, LLC		QPL-0001	2215	/ Mfr. Cert. per Stnd. Spec. 1-06.3
015.03	Beam Guardrail Wood Post and Blocks	Superior Wood Treating		QPL-0005	2550	/ Lumber Grading Stamp or Grading Certificate and Certificate of Treatment. (If Aquatic Envir. Std. Spec. 9-09.3 (1) Applies)
015.04	Beam Guardrail Steel Post and Blocks	Trinity Highway Products, LLC		QPL-0002	2215	/ Mfr. Cert. per Stnd. Spec. 1-06.3

Item Num	Item Description	Grp	Date Work Complete	Unit	Quantity	Ledger Entry No.	Posted By Init.	Posted By Date	Checked By Init.	Checked By Date	Est. No.
0015	BEAM GUARDRAIL TYPE 31	1	8/5/2019	L.F.	175	177	EK	08/09/19			5
0015	BEAM GUARDRAIL TYPE 31	2	8/5/2019	L.F.	37.5	178	EK	08/09/19			5
0015	BEAM GUARDRAIL TYPE 31	8	8/5/2019	L.F.	575	179	EK	08/09/19			5
0015	BEAM GUARDRAIL TYPE 31	9	8/6/2019	L.F.	75	180	EK	08/09/19			5
0015	BEAM GUARDRAIL TYPE 31	10	8/5/2019	L.F.	37.5	181	EK	08/09/19			5

Attachments



Things to do 82-2.xlsx
Microsoft Excel
Worksheet
400 KB